	Strand	Activity Groups	Included in every activity group:
1	P & A 2	Cover the board	Explore More pages
2		Dartboard	Explorer Progress pages
3		Guess which shape is in the bag	Relevant Assessment cards
4		Which coins are in the purse?	Assessment tracker file -
5		Three in a row	excel
6		Building oblongs	
7	P & A 3	Odds and evens	
8		Investigating odds and evens with socks	
9		Odds and evens with Numicon shapes	
10		Patterns of addition with odds and evens	
11	Cal 5	Halves and quarters	
12		Sandwiches with halves and quarters	
13		Halves and quarters of squares	
14		Halves and quarters of circles	
15		Halves and quarters of discrete objects	
16	Mea 4	Heavier and lighter	
17		Weighing using a pan balance	
18		Comparing weights of three objects	
19		Weighing using non std. and pan balance	
20	Mea 5	Finding what holds more or less	
21		Finding how much a container holds	
22		Finding capacities of non- std units	
23		Measuring more accurately	

Numicon Teaching Handbook 1 Online Resources - selection only to give as examples

For example: Cal 5 Halves and quarters of wholes



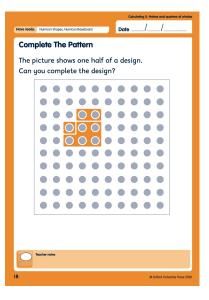




Number, Pattern and Calculating Teaching Resource Handbook 1

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AS-

Practice and discussion: Whole-class

- Discuss with children how and when the mathematics they have been learning could help them in solving problems
- Take opportunities to discuss half/halves and quarter(s) as they occur in everyday situations, e.g. drinking half a carton of juice, the first half of a play or a football match.
- Show children a Numicon 1- 2-, 3- 4- or 5-shape saying this is half of another Shape. Ask them to show you the whole Shape
- Show children an even Numicon Shape, and ask them to show you a Shape that would be half. Vary by asking them to show you the two Shapes that show the two halves
- Using contexts within the school day ask children questions where they have to find double or half, e.g. 'We only have 3 apples but double the amount of children would like an apple today. What should we do?' Also include questions such as, 'The answer is 10, what did I double?' and '4 is half, what was the total?'

3: Finding halves and quarters of squares Quit activity 🙁 Step 2 Give each child a fresh paper square to experiment with folding it into two equal parts Children may choose to fold their square horizontally, vertically, or diagonally. Compare all squares and discuss which are folded in half Ask children how they know. Look and listen for children who explain that the two halves exactly cover one another and so must be equal in size (see image).

Intro Links I 2 3 4 +

Step 4

Children can now cut their square into quarters, After completing work on this activity, give and then move the pieces to show one quarter, children the opportunity to take home and two quarters and three quarters. Ask 'How many quarters go together to equal one half?' Look and listen for children who have noticed this equivalence and answer 'two'. Ask other auestions, such as 'How many halves ao together to equal one whole?' and 'How many quarters go together to equal one whole?' Look and listen for children who can describe

complete Explore More Copymaster 26: Halving Shapes. This will help children to explore the connections between doubling numbers I–5.

Quit activity 🙁

3: Finding halves and quarters of squares Quit activity 🙁 Intro Links I 2 3 4 +

Step I

Remind children about 'measuring by eye' when cutting sandwiches into halves and quarters to try to make the parts equal. Show children the paper squares and ask for suggestions for dividing or sharing them in half. children who have folded the paper and ask Discuss their suggestions, which may include measuring, measuring by eye, folding or drawing a line across the square. Give each child a paper square and allow them time to try carefully when folding. out their ideas

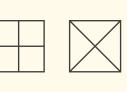
Look and listen for those explaining how they have tried to make two equal parts. Discuss their ideas and agree on the simplest and most accurate method. Look and listen for any them to show how they have done it. Make sure all children realize that the opposite edges of the paper square have to be lined up

3: Finding halves and quarters of squares Intro Links I 2 3 4 +

Step 3

Ask children how they could fold their square into four equal parts. Look and listen for children who fold their square in half again, and then open it out to show four parts using the word 'quarter'. Discuss and agree that their squares are now divided into four equal parts, or four quarters (see image).

w divided into halves and quarters and



Quit activity 🙁

Quit activity 🙁 3: Finding halves and quarters of squares Intro Links I 2 3 4 + Paired or small group work Have ready: different sized squares, rectangles and equilateral triangles (no larger than A5, no smaller than 5 cm squared), scissors, glue Children choose two identical shapes of paper and agree that one child will fold and cut their shape into halves and the other will fold and cut theirs into quarters. Each then sticks their equal parts into their book showing the whole shape again. Children compare their shapes